Source Material for

2013 Samsung Air Conditioner

This is a source material for 2013 Samsung Air Conditioner Catalog that is provided globally. Modify and publish this catalog according to each subsidiary's circumstances after consulting with the head office.

VOC Registration

- http://mnet.samsung.com -> Product information -> help -> voc
- VOC type : marketing contents -> air conditioner -> catalog

CAUTION

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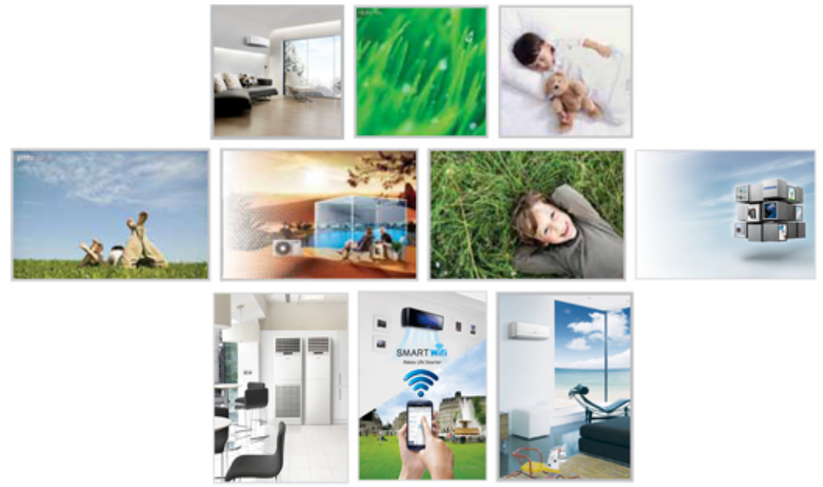

Learn more about
Samsung air conditioners at:
www.samsung.com

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SAMSUNG

2013 SAMSUNG AIR CONDITIONERS

The fresh and clean air of Samsung air conditioners
ease your mind and comfort your body.

SAMSUNG

Smart Appliances
that get you and your home

A smooth-running home is a source of great pleasure for modern moms, but maintaining a home also entails hard work. ‘Traditional’ home appliances help to ease the physical burden of household management but the mental burden of planning and organizing are still on mom’s shoulders.

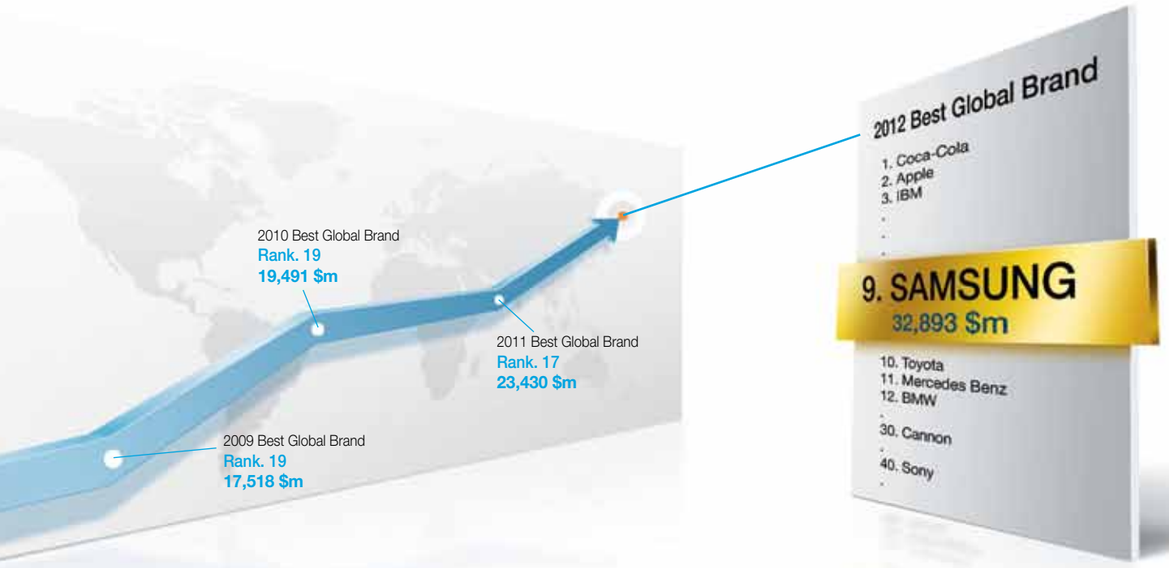
Samsung is revolutionizing the home appliances category, drawing on the expertise that we have developed in categories such as mobile phones and TVs to add smart technology into appliances. **Samsung Smart Appliances get you and your home.**

Assuming human characteristics, Samsung Smart Appliances anticipate mom’s needs and adapt to her requirements to ease the mental as well as the physical burden of maintaining a smooth-running home.

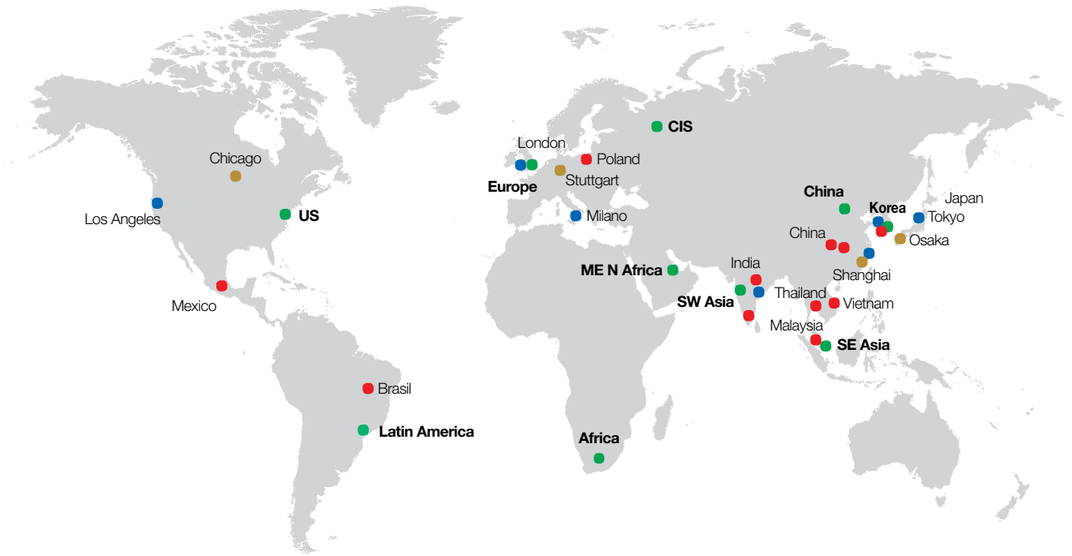
Samsung is moving ahead and with our customers

"Put simply, our differentiation is centered on producing innovative technology that brings genuine change to people's lives. We do this by bringing a relentless focus on consumer experience and product innovation in everything we do."

- Sue Shim CMO (Chief Marketing Officer), SAMSUNG



11 Global Operation Centers 10 Global Headquarters 4 HA R&D Centers 7 Design Centers



‘Eco-friendly’ Samsung

Preserves the nature you live in.

Thinking of you and the environment, Samsung plans for the future. Realizing your hopes for a greener, healthier life for you and the generations that follow, Samsung’s environment-friendly technologies work to make the world a more beautiful place.

Air & Water Conservation

Making continuous efforts to stay eco-friendly, Samsung air conditioners use R-410A, an environment-friendly refrigerant to help rid the air of pollutants and restrain the use of materials with high global warming potential(GWP).

Samsung Eco-Friendly Air Conditioner

Samsung is committed to providing eco-friendly air conditioners and air solutions that help prevent global warming and contribute to the resolution of energy shortages. Through these efforts, Samsung is striving to preserve the surrounding environment and to share sustainable growth with local communities.

Use Less, Save More

With the advanced Smart Inverter technology, Samsung air conditioners provide powerful and comfortable cooling with minimum electric consumption which means that you save money and reduce energy waste.
This energy-efficient technology also protects the environment to accommodate the ‘go green’ trend.

Global Recycling

Samsung Electronics has taken a leading role in saving the environment and compiles with the WEEE (Waste Electrical and Electronic Equipment) Directive by joining or establishing the recycling schemes for each country.

Galeria de Innovacion 2009

Samsung attended Europe's largest air-conditioner exhibition "Climatization" in Madrid, Spain. Samsung air conditioner's beautiful design with innovative features was awarded the "Galeria de Innovacion". The idea behind this award is to encourage innovation in the practical application of know-how and technologies in industrial development. Once again, Samsung proves its unsurpassed standards in quality.

iF Product Design Award 2009

As one of the world's oldest & prestigious design competitions, the iF product design award has stood for qualitatively outstanding design awards for over 50 years. And Samsung air conditioner with its design innovations has won the iF product design award for the year 2009. Samsung air conditioner continues to receive worldwide recognition and awards, proving high quality of function and beauty.

Comfort & Design 2010

Organized by Fiera Milano International, 37th Mostra Convegno Expocomfort / Expobagno 2010 aimed to reward the best product that shows a high level of environmental quality, providing a complete overview of the sector along the lines of "Comfort & Living Technology". And Samsung air conditioner won the prize conferring a valid and professional recognition for the best product in the ceremony .

Good Design Award 2011

Good Design Award is a comprehensive program for the evaluation and encouragement of design organized by Japan Institute of Design Promotion (JDP). This has been a program advancing lifestyle and industrial activity by selecting outstanding design. Samsung air conditioner , Y series, has advanced to the finals for the year 2011.

2013 SAMSUNG AIR CONDITIONERS

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01
Expertises

Energy Efficiency

Save on Your Electricity Bill.

- Smart Inverter
- Minimum Standby Power
- Smart Saver

Double Savings

Samsung Smart Inverter technology saves up to 70% in energy while
the air conditioner is on, and uses Minimum standby power when turned off.
These great double savings reduce your electricity bill
and keep you from pulling out the plug.

ON

When the air conditioner is on

Smartinverter

The Smart Inverter technology uses the least amount of electricity to maintain the desired temperature without frequently shutting off and on, saving up to 70% of energy.

OFF

When the air conditioner is off

Minimum Standby Power

The improved control board installed in the Samsung air conditioner uses miniscule amounts of energy when the air conditioner is off, resulting in 90% more energy savings than conventional air conditioners.

Smart Inverter

Save energy with high energy efficiency

Test condition
- Inverter model : **AQV09YWAN** / On/Off model : **AQV09T*B**
- Outside Temperature : 35°C/24°C (Dry Bulb/Wet Bulb)
- Laboratory: House-environment Test Lab at Samsung Electronics
- Room Size : 16.5m²
- Initialize indoor Temperature : 35°C / Set target Temperature : 25°C

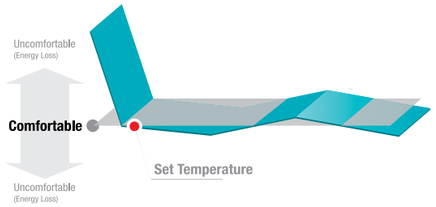
Smart Inverter

What is the Smart Inverter?

Samsung Smart Inverter technology saves energy while the air conditioner is on by maintaining the ideal temperature without constant shutting off and on of the compressor.

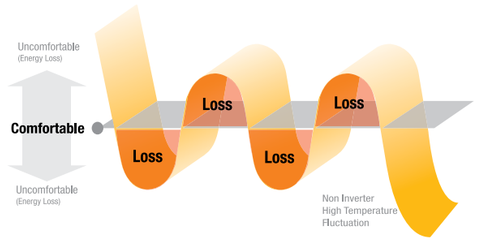
Smart Inverter

Smart Inverter technology automatically adjusts power to cope with any temperature variances, assuring you have optimal comfort.



Non-inverter

Non-inverter air conditioners are continuously shutting down when it reaches the set temperature, which causes large fluctuations in temperature and comfort.



Save energy, money, and stay cool!

The Smart Inverter allows you to stay comfortable for a long period of time while using the least amount of energy. With reduced energy consumption, it also preserves the environment

Fast Cooling

When you change the temperature setting, the air conditioner will use the compressor's maximum capacity to quickly reach the desired temperature, resulting in 15% faster cooling.

Stay Comfortable

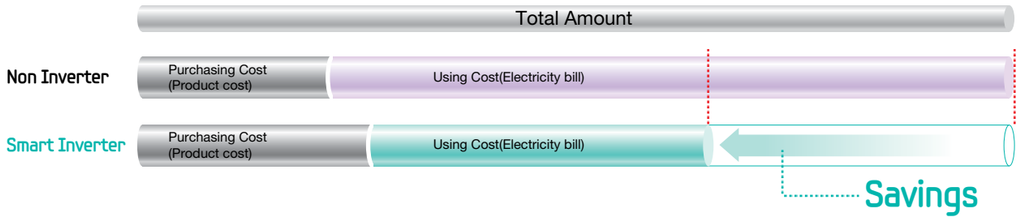
The set temperature is maintained without extreme temperature fluctuations so you stay consistently comfortable.

Save Earth

The energy efficient Smart Inverter not only saves your money but also nature for your greener life style.

Save more with the Smart Inverter

Although the unit price of Smart Inverter air conditioner is initially higher than a non-inverter air conditioner, it pays for itself in time with the money you save on electricity bills.

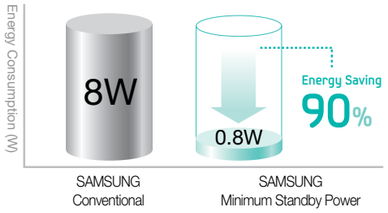


Minimum Standby Power

Save energy whether on or off

Minimum Standy Power, save up to 90%

Samsung air conditioner consumes only one tenth amount of energy compared to conventional air conditioners, when it is turned off.



Smart Saver

Enjoy worry-free fresh cooling

This is when you need Smart Saver!

When you repeatedly turn the air conditioner on and off to save energy.

When you don't want to waste energy cooling an empty room.

When you debate turning on the air conditioner because its not unbearably hot.

Clean and Fresh Air

Take A Deep Breath.

Virus Doctor (S-Plasma ion)

Full HD Filter

Double Cleaning

Samsung enhanced purifying system with advanced filter and smart Virus doctor.
Virus doctor further cleans the air that has already been filtrated
by the Full HD Filter to ensure a fresher and healthier environment.

STEP 1.

FULL HD FILTER

Samsung's high density filter blocks out
dust and allergy-causing bacteria.

STEP 2.

Virusdoctor

The air purifying device eliminates 99.9%
of contaminants, bacteria and viruses in the air.

Virus Doctor (S-Plasma ion)

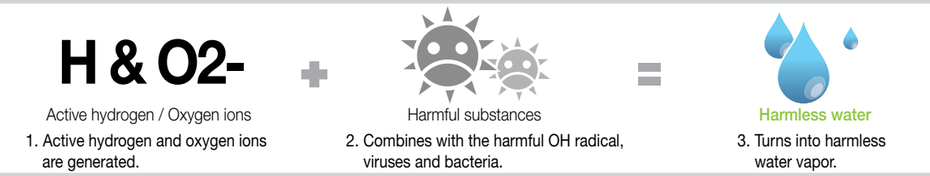
Breathe healthier air

What is Virus doctor?

An amazing air purifying technology, 'Virus doctor', neutralizes all harmful contaminants in the air including bacteria that resists physical filtration, turning these contaminants into harmless water vapor.

How does Virus doctor eliminate biological contaminants?

Whereas conventional filter-based purifying systems can only affect processed air, Samsung air conditioners with Virus doctor proactively remove all contaminants, thus improving air quality.


H & O2-
Active hydrogen / Oxygen ions
1. Active hydrogen and oxygen ions are generated.
Harmful substances
2. Combines with the harmful OH radical, viruses and bacteria.
Harmless water
3. Turns into harmless water vapor.

Virus doctor has received three awards, gaining recognition both at home and abroad.

2010 AHR EXPO
Innovation Awards in the
indoor air-quality category

1st Air Day
Minister of the
Environmental Award

Winner of the
Jang Young Sil
Award

Certification status

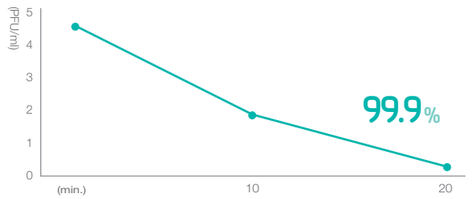
Substances		Effectiveness	Verification Institute
Virus	Influenza A virus subtype H1N1 (Swine flu)	99% eliminated	Chungnam National University (Korea)
	Influenza A virus H5N1 (Avian influenza)	99% eliminated	Retroscreen (UK)
	Influenza A virus H1N1 (Spanish influenza)	99.6% eliminated	Kitasato Environmental Science Center (Japan)
	Influenza A virus H3N2 (Asian influenza)	99.6% eliminated	Yonsei University (Korea)
	Corona Virus (the same family as SARS)	99.6% eliminated	Kitasato Medical Center (Japan)
Bacteria	MRSA[1]	99% eliminated	Kitasato Medical Center (Japan)
	Staphylococcus	99.97% eliminated	Kitasato Environmental Science Center (Japan)
	Escherchia coli	99.9% eliminated	Korean Consuming Science Research Center (Korea)
	Micrococcus	99.9% eliminated	Kitasato Environmental Science Center (Japan)
	Bacillus subtilis	99.7% eliminated	Kitasato Medical Center (Japan)
mold	Aspergillus	99.9% eliminated	Korean Consuming Science Research Center (Korea)
	Penicillium	99.9% eliminated	Korean Consuming Science Research Center (Korea)
	Cladosporium	98.9% eliminated	Kitasato Environmental Science Center (Japan)
Allergen	Der p1 (Dust mites) Fel d1/Can f1 (Dog/cat hair)	effective	Acquire BAF[2] Seal (UK)
	Allergen	effective	RTI[3] Test (US)
OH-Radicals	Neutralization of OH Radicals	Verified	Hiroshima University (Japan)
Safety	Inhalation Toxicity Test	Non-toxic	Seoul Toxicology Laboratory (Korea)
	Conjunctiva & Skin irritation Test	Non-toxic	Clinical Research Institute at Seoul National University (Korea)

1) MRSA : Methicillin-Resistant Staphylococcus Aureus (Antibiotic-resistant nosocomial pathogens) 2) BAF : British Allergy Foundation (Certification institute) 3) RTI : Research Triangle Institute (Allergy research institute in the US)

Healthy Air _ Eliminate the influenza virus

Viral removal testing was carried out on the influenza virus, the most common airborne virus, leading to confirmation of Virus doctor's ability to effectively eliminate more than 99.9% of influenza viruses in the air. (Certification by: Korea-Yonsei University, Chungnam National University / Japan - Kitasato Environmental Science Center, Medical Center)

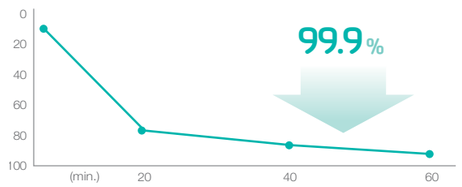
Influenza subtype A H1N1 eradication experiment



* Research carried out by : Professor Seo Sang-hui of Chungnam National University (Developed the world's first H1N1 vaccine for the human body)

MRSA (Antibiotic-resistant bacterium)

Virus doctor removes 99.9% of MRSA, which is resistant to antibiotics.



* Testing institute : Kitasato Environmental Science Center
* Measurement time : 2 hours * Test sample : Device only * Size of chamber : 1m³

Microbial test results (Staphylococcus aureus)

* Size of chamber : 900mm(W) x 500mm(D) x 600mm(H) * Air suction rate : 300L air/3 min
* Samsung test standards

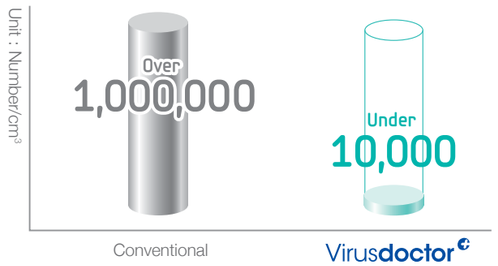
Clean Air _ Remove allergens in the air

Virus doctor, Samsung's outstanding and unique technology, has received the BAF (United Kingdom) Seal.

Relaxing Air _ Generate relaxing oxygen ions

Free from harmful positive ions

As positive ions can cause symptoms such as difficulty in breathing, headache, and nausea, Samsung's special Virus doctor technology generates nearly zero harmful positive ions to keep your family safe.

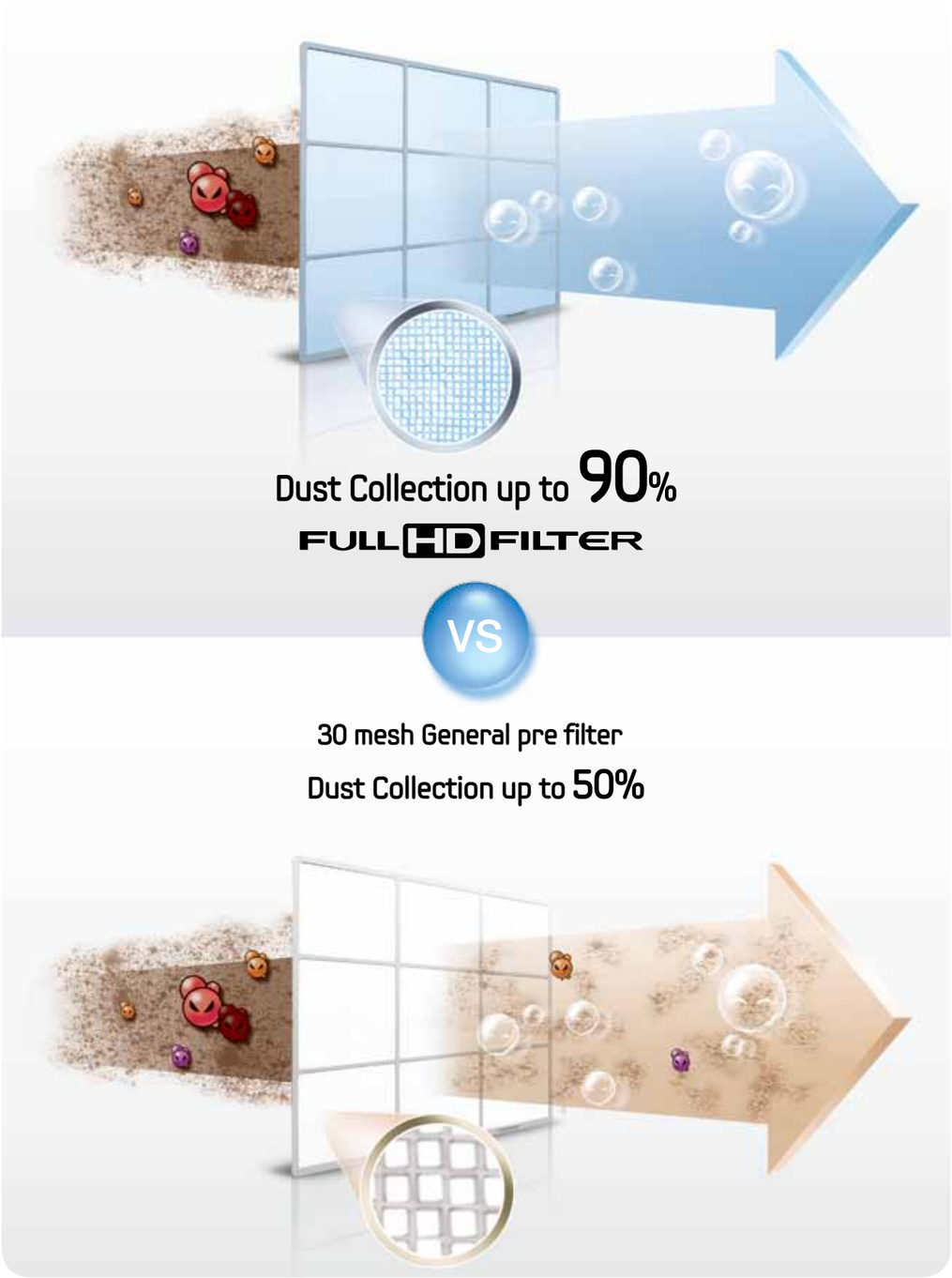


Free from ozone

Virus doctor technology produces virtually no ozone, an air pollutant with harmful effects on the respiratory system. Producing less than 1/5th of the concentration level stipulated in international indoor ozone regulations, S-Plasma ion technology lets you breathe easy.

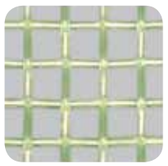
Full HD filter

Block up to 90% of dust



Full HD filter types

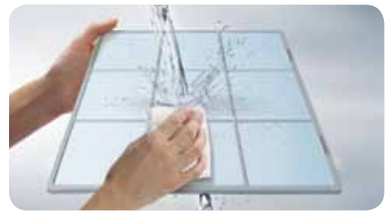
There are three different types of Full HD Filters. The ultra-compact filters remove even the smallest dust particles. Also the anti-bacteria coating and allergy care system not only remove bacteria and house dust but also eliminate allergens.

	30 mesh General pre filter	Full HD Filter		
		Full HD 60	Full HD 80	Full HD 90
X 40				
X 150				
Application Model		Max	Maldives, Boracay, Crystal	Jungfrau, Maldives++
Filament Dia.	211	134	60	57
Dust Collection	50%	60%	**80%**	**90%**
Feature	Anti-Bacteria coating			Allergy Care

Anti-Allergy tested by National Food analysis center of Japan

Easier and care-free filter cleaning!

All you need to do is simply wash out the dirt with flowing water to clean the filter. Always keep your air clean and fresh with simple and easy care of the filter.



Anti-bacteria coating

Due to the anti-bacteria coating's unique structure, this filter collects even the smallest microscopic dust particles and viruses for the complete protection.

Allergy care

Samsung's filter removes not only bacteria and dust particles but also reduces allergy symptoms.

03
Expertises

Comfort

Relax & Feel Better.

- 3D wind
- good'sleep
- Turbo Cooling
- Quiet Operation

3D Wind

Effective cooling even in larger areas

120˚ wider coverage

Samsung's Wide Twin Blade expands air coverage to 120 degrees. This improved distribution lets you feel comfortable faster.

Wider Heating / Cooling *Samsung test results

90˚ vertical airflow

Samsung's Wide Twin Blade individually controls the airflow at optimum angles. The double layered blade provides long range airflow to deliver heating or cooling for larger spaces.

Direct Heating / Cooling *Samsung test results

13m long range cooling

With long-range air flow that reaches to 13m, you can feel cool air instantly even though you are far from the air conditioner.

Long Range Cooling Coverage *Samsung test results

3D Wind

With Samsung's Wide Twin Blade, the air flows throughout the room evenly. The wider and longer blades provide advanced airflow in the room allowing you to experience a cooler environment in a shorter time.

120˚ wider coverage
The airflow covers 120˚ angle for complete comfort.

90˚ vertical airflow
Two blades individually flows air down to the floor at 90°.

13m long range cooling
The air distributes further throughout the room with long-range airflow.

good'sleep

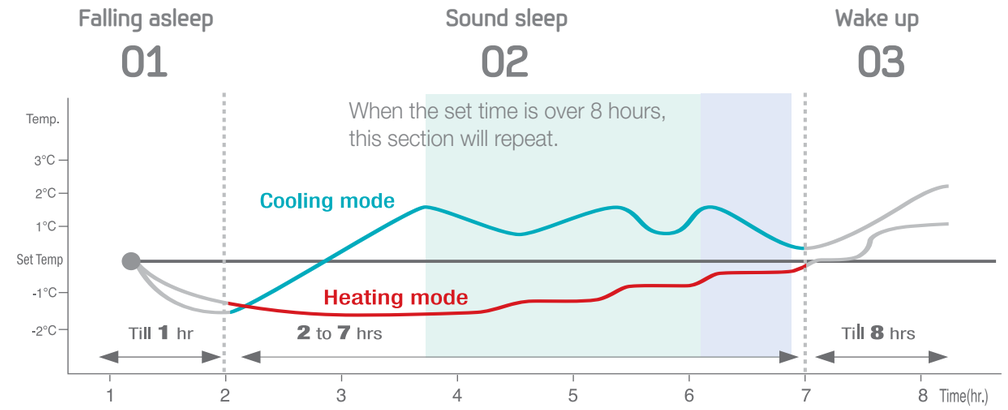
Ideal temperature for your good night's sleep

Enjoy a pleasant night's sleep

The quality of sleep you get directly impacts your physical and mental health. Concerned with your health, Samsung performed extensive experiments to determine the ideal temperatures needed to quickly fall asleep, maintain a comfortable sleep environment, and to awake refreshed. After years of testing, Samsung has developed a precise temperature control system that accurately controls the temperature and humidity in the room during the 3 stages of sleep to ensure users wake up fully refreshed and ready to start their day.

Best temperature for deep sleep

Unlike other product's sleep mode, Samsung good'sleep considers the rhythms of human sleep and controls the cooling to maintain ideal temperatures to each stages.



01 Falling asleep stage
Eases you into sleep by dropping the temperature.

02 Sound sleep stage
Relaxes your body and raises your temperature slightly.

03 Wake up stage
Allows you to wake up from comfortable intermittent air and makes you feel refreshed.

Turbo Cooling

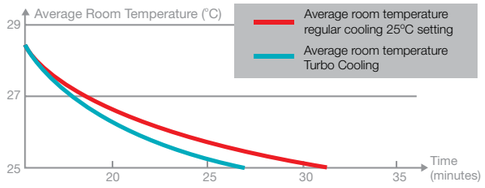
Instantly cool your space

Maximum cooling!

When you turn on the Turbo Cooling mode, the compressor operates in its maximum speed for 30 minutes to cool down your space quickly.

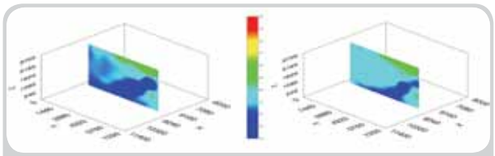
Cool down faster than ever

Compared to normal operation mode, Turbo Cooling cools the space 15% faster. When you need instant cooling, Turbo Cooling is the perfect answer.



Even cooling

Illustrated in the table on the right, Samsung's cool air evenly distributes throughout the room quicker than regular cooling.



Turbo Cooling	Regular Cooling
Instant cooling brings comfort faster	The room is cooling slowly which makes you uncomfortable.

* More blue means better cooling operation.

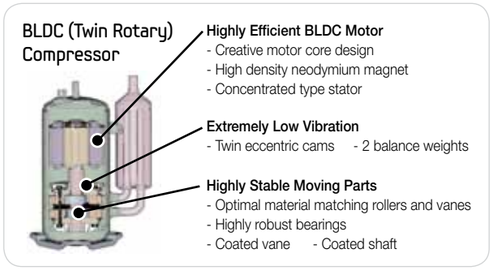
Quiet Operation

Relax with peace and quietness

Immensely low vibration with twin BLDC

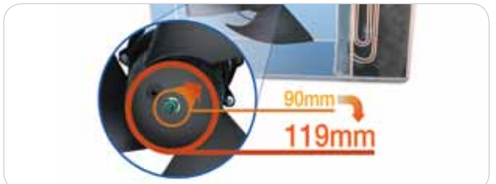
The highly efficient twin BLDC compressor reduces its variation level to only 1/8 compared to the samsung conventional single BLDC compressor.

Test model
Twin BLDC model : UG4T150LNC_PV#4 / Single BLDC model : G4C090LUD


BLDC (Twin Rotary) Compressor
Highly Efficient BLDC Motor
- Creative motor core design
- High density neodymium magnet
- Concentrated type stator
Extremely Low Vibration
- Twin eccentric cams - 2 balance weights
Highly Stable Moving Parts
- Optimal material matching rollers and vanes
- Highly robust bearings
- Coated vane - Coated shaft

More stable fan spin

New fan hub's depth is increased from 90 mm to 119mm and the diameter is widened by 32%. The reinforced fan hub makes the spinning more stable, reducing vibration noise when the air conditioner is in operation.



Stronger body pillar

Once the air conditioner is turned on, the outdoor unit's case makes a high level of noise due to vibration and loose jointed parts. Samsung's strengthened body pillar holds the case more tightly to inhibit vibration and adds durability.

Durability

No Sweat, No Worries.

Triple Protector

Triple Protector

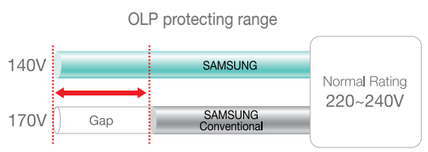
Enjoy steady and stable cooling with ultimate durability

How to work

Samsung's integrated protection technology offers better durability and reliability. Its powerful protecting system (Engine Protector), constant volt control (Controller Protector), and effective anti-corrosion coating (Fin Protector) allow you to use for a longer period of time.

❶ Engine protector

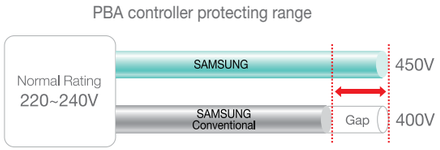
Samsung's distinctive engine protector prevents compressor from being overloaded by unstable electricity circumstances.



* OLP : Overload Protector
* Normal Rating : 220~240V, 50Hz

❷ Controller protector

Samsung's advanced controller adjusts to avoid breakdowns from voltage surge. This special technology withstands power fluctuations from 80V to 450V.



* Normal Rating : 220~240V, 50Hz

❸ Outstanding anti-corrosion fin protector

Anti-corrosion fin condenser and MCC are designed with strong corrosion-resistant material to protect itself from rusting. This fin strongly protects the condenser from corrosion to give you cool and clean air without worries of being worn.

Samsung's anti-corrosion fin

Uncoated

05
Expertises

Convenience

Make Things Easier and Smarter.

Smart wi-fi

*The smart phone display can be different with the real one.

Smart wi-fi

Control your cool anytime anywhere

More convenience at your fingertips with wi-fi

* The smart phone display can be different with the real one.
Wi Fi CERTIFIED
■ To use the Smart Control functions, you need wi-fi connection. Generally, the connection can be made where you can use a smart phonewith wi-fi, but please be sure that the following cases may cause restrictions.
* wi-fi signal is unstable
* A separate ID and a password are needed to use web browsers (usually in commercial places such as a hotel, an airport, etc.)
* wi-fi can be used only in devices installed with a certain program of an internet service provider

Inside the house			Outside the house
Power on / off	Operation mode	Temperature setting	Power on / off
Virus doctor(S-Plasma ion)	Smart saver	Quiet mode	Operation mode
d'light cool	Auto clean	good'sleep	Temperature setting

How Smart wi-fi works from outside the house

Since you can control your air conditioner with your smart phone or computer, you never have to worry that you accidently left the air conditioner on. With the smart device, you can easily turn it off from outside the house. Furthermore, you can turn it on before you arrive so you always enter a cool house.

When real life needs real wi-fi solutions

In the office

"Turn it off now, I forgot it when leaving home"

On the way going back home

"Turn it on now, Cool home before I get there"

At home

"No need to look for the remote controller"

Accessing In-home / Out-home

Use the Smart A/C app to replace the remote.

1. Press the [In-Home/Out-home] tab on the home screen.
2. Search for your air conditioner.
   --- If you cannot find your air conditioner model, press the [Refresh] tab to search again.
3. Select the appropriate device.

Personalize Information

1. Change air conditioner information or see the App version information, Open Source License by pressing the [Settings] tab.

2. Assign a name to your air conditioner by going into [Setting]--> [AC info setting]--> [AC Code]. (This is especially helpful when several different devices are linked to the same app.)

Air Conditioner Control

Set operation mode by pressing the [Mode] tab.

1. Turns the air conditioner on or off.
2. Select operation Mode - Auto, Cool, Dry, Fan, or Heat.
3. Select desired temperature of room by dragging and displays current temperature.

Scheduling Function

1. After pressing the [Timer] tab found at the bottom of the screen, press the [On Timer] or [Off Timer] to set.
   - For the air conditioner to automatically turn on at a set time, press [On Timer]; to set for automatic off, press [Off Timer].
2. Press [+]/[-] and [AM]/[PM] to adjust the time.
3. After setting the desired time, press the [OK] tab to complete.

Set Optional Features for the Air Conditioner

*** Control optional features**
*** Additional features may differ depending on air conditioner**

1. Press the [Option] tab found at the bottom of the screen.
2. Select desired operation mode or function.

• NOTE : Detailed descriptions of optional functions can be found in the user manual.

06
Expertises

Advanced Technology

Enjoy exceptional cooling power.

Innovative Heat Exchanger

UTR Plus™

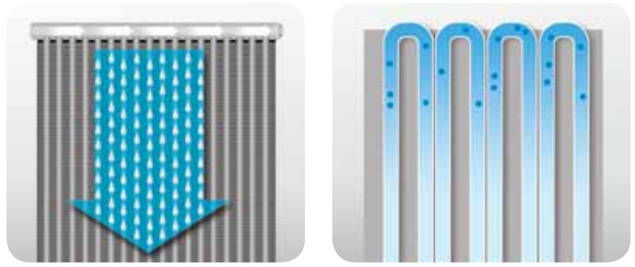
Innovative Heat Exchanger

Achieve high efficiency through innovation

Smaller size for easier installation
Samsung's heat exchanger also makes the outdoor unit smaller, which allows for easier transfer and convenient installation.
SAMSUNG
SAMSUNG
Conventional

Remarkable innovation for the heat exchanger!

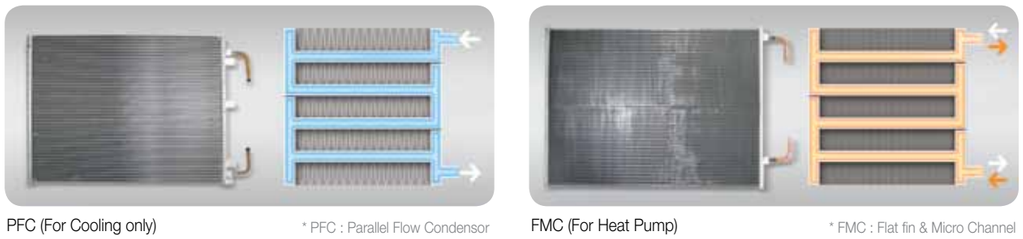
Samsung's Innovative Heat Exchanger increases the heat exchange surface with multi channel flow, and with its new flat surface design, it reduces air resistance compared to conventional heat exchangers. Therefore, the cooling efficiency has been improved!



SAMSUNG | SAMSUNG Conventional

Instant heat exchange for faster cooling!

Compared to conventional ones, Samsung heat exchanger performs faster, resulting in faster heat exchange. So, your space can be cooled instantly.

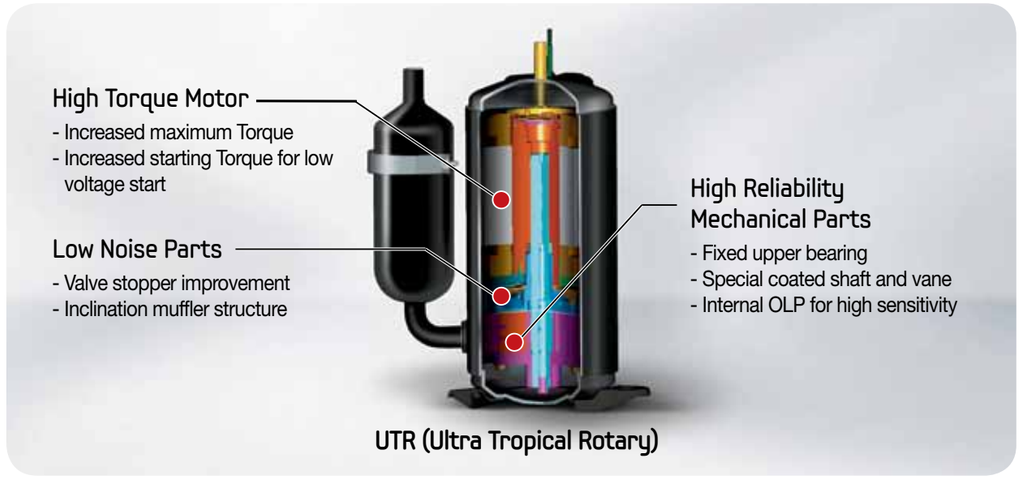


PFC (For Cooling only) * PFC : Parallel Flow Condensor

FMC (For Heat Pump) * FMC : Flat fin & Micro Channel

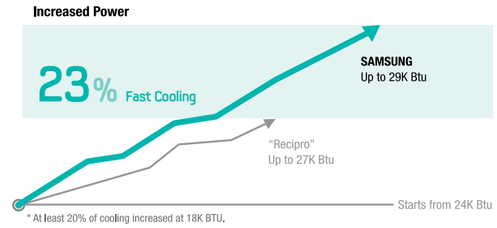
UTR Plus™

Powerful cooling even at 52°C


High Torque Motor
- Increased maximum Torque
- Increased starting Torque for low voltage start
Low Noise Parts
- Valve stopper improvement
- Inclination muffler structure
High Reliability Mechanical Parts
- Fixed upper bearing
- Special coated shaft and vane
- Internal OLP for high sensitivity
UTR (Ultra Tropical Rotary)

Consistent cooling in any kind of weather

The UTR Plus™ with its strong motor can quickly cool the air even in extreme hot climates of 52°C, and it is 23% faster than the conventional "Reciprocating" compressor.



Long-lasting coolness without breakage

Samsung's UTR Plus™ compressor extends its lifespan by enhancing its welding method with new durable material, so you can enjoy its powerful performance for a longer period of time.

Samsung UTR Plus Compressor		
Components	Wear Rate (%)	Judgement
Shaft	5%	Excellent
Roller	15%	Good
Vane	1%	Excellent
Upper Bearing	17%	Excellent
Lower Bearing	12%	Good
Cylinder	11%	Excellent

Reciprocating Compressor		
Components	Wear Rate (%)	Judgement
Shaft	200%	Poor
Connecting Rod	90%	Not Satisfactory
Wrist Pin	48%	Good
Lower Bearing	108%	Not Satisfactory
Upper Bearing	82%	Not Satisfactory
Piston	85%	Not Satisfactory

Certifications for reliability and performance

Samsung UTR Plus™ received many certifications which prove its outstanding reliability and strong performance, ensuring your satisfaction and comfort.

Certified by Maryland CEEE (Max 9% higher EER than Reciprocating comp)

All UTRs are licensed by KSA (Kingdom of Saudi Arabia)

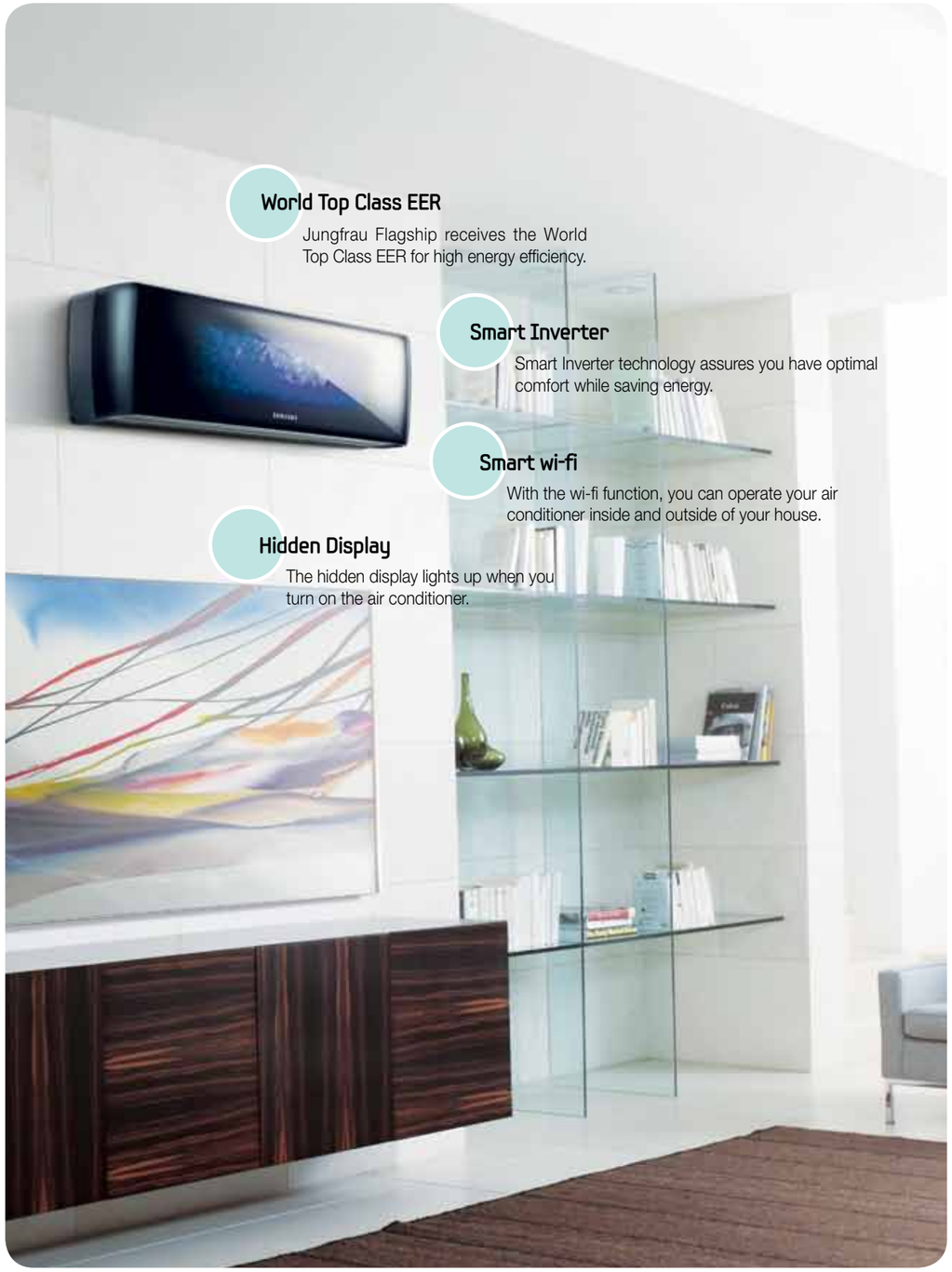
Split Type

Express Yourself.

- Jungfrau Flagship (K-series)
- Jungfrau Premium (Y-series)
- Maldives (P-series)
- Boracay (T-series)
- Crystal
- Max
- Vivace
- Jungfrau-N (K-series)

Jungfrau Flagship (K-Series)

The elaborately designed Samsung's Jungfrau Flagship air conditioner helps to reduce energy consumption to save money, so you can enjoy both the best in style and energy efficiency.



World Top Class EER

Jungfrau Flagship receives the World Top Class EER for high energy efficiency.

Smart Inverter

Smart Inverter technology assures you have optimal comfort while saving energy.

Smart wi-fi

With the wi-fi function, you can operate your air conditioner inside and outside of your house.

Hidden Display

The hidden display lights up when you turn on the air conditioner.

Additional features

Smart Inverter

Smart Inverter maintains the ideal temperature without constant shutting off and on of the compressor.

Minimum Standby Power

The air conditioner uses almost 0W of energy when it's off, that results in 90% more energy savings.

Virus Doctor (S-Plasma ion)

Virus doctor eliminates up to 99.9% of the biological contaminants in the air such as dust, bacteria and even H1N1 virus.

Full HD Filter

The Full High Density Filter collects up to 90% of dust and allergy causing bacteria.

3D Wind

The 3D Wind and 4 Way Auto Swing provide advanced airflow all around the room for even distribution.

Smart wi-fi (Optional)

With the newly added wi-fi function, you can control your air conditioner without space restraints.

d'light cool

This system automatically adjusts the temperature and humidity level to maintain the most pleasant environment.

Hidden Display

The gentle and stylish hidden LED display lights up when you turn on the air conditioner.

Smart Saver	Wide-Twin Blade	Allergy Care	Auto Clean
Natural Breeze	Turbo Cooling	Dehumidification	Auto Mode
Fan Mode	Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)
Fin Protector (Anti-corrosion Fin)	Twin BLDC	Indoor Temp. Display	Display On/Off
Beep On/Off	Real-time timer	Auto Air Direction (Up/Down)	Auto Air Direction (Left/Right)
Auto Restart	Auto Changeover	good'sleep	

Available color

Outdoor units & remote control

Inverter		
9K BTU	12K BTU	18K BTU

Jungfrau Premium (Y-Series)

With outstanding purifying technology and consistent cooling power in any circumstance, the Samsung Jungfrau Premium air conditioner ensures comfort.

Hidden Display
The snow white surface with hidden display adds modern sophistication to the room.
Smart Inverter
Smart Inverter technology assures you have optimal comfort while saving energy.
Virus Doctor (S-Plasma ion)
Virus doctor eliminates 99.9% of harmful contaminants in the air.

Additional features

Smart Inverter

Smart Inverter maintains the ideal temperature without constant shutting off and on of the compressor.

Minimum Standby Power

The air conditioner uses almost 0W of energy when it's off, that results in 90% more energy savings.

Virus Doctor (S-Plasma ion)

Virus doctor eliminates up to 99.9% of the biological contaminants in the air such as dust, bacteria and even H1N1 virus.

Full HD Filter

The Full High Density Filter collects up to 90% of dust and allergy causing bacteria.

Smart wi-fi (Optional)

With the newly added wi-fi function, you can control your air conditioner without space restraints.

d'light cool

This system automatically adjusts the temperature and humidity level to maintain the most pleasant environment.

3D Wind

The Wide Twin Blades and 4 Way Auto Swing provide advanced airflow all around the room for even distribution.

Hidden Display

The gentle and stylish hidden LED display lights up when you turn on the air conditioner.

Wide-Twin Blade	Allergy Care	Auto Clean	Natural Breeze
Turbo Cooling	Dehumidification	Auto Mode	Fan Mode
Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)	Fin Protector (Anti-corrosion Fin)
Twin BLDC	Indoor Temp. Display	Display On/Off	Beep On/Off
Real-time timer	Auto Air Direction (Up/Down)	Auto Air Direction (Left/Right)	Auto Restart
Auto Changeover	Smart Saver	good'sleep	

Available color

Outdoor units & remote control

Inverter		
9K BTU	12K BTU	18K BTU

Maldives (P-Series)

Rely on the Samsung Maldives air conditioner for longer lasting coolness, sophisticated style, and healthier living.

Smart Inverter
Smart Inverter technology assures you have optimal comfort while saving energy.
Full HD filter
The Full HD Filter collects up to 80% of dust and bacteria causing allergy.
Virus doctor (S-Plasma ion)
Virus doctor eliminates 99.9% of harmful contaminants in the air.

Additional features

Smart Inverter

Smart Inverter maintains the ideal temperature without constant shutting off and on of the compressor.

Minimum Standby Power

The air conditioner uses almost 0W of energy when it's off, that results in 90% more energy savings.

Virus Doctor (S-Plasma ion) **(Optional)**

Virus doctor eliminates up to 99.9% of the biological contaminants in the air such as dust, bacteria and even H1N1 virus.

Full HD Filter

The Full High Density Filter collects up to 80% of dust and allergy causing bacteria.

- Smart Saver
- Natural Breeze
- Fan Mode
- Fin Protector (Anti-corrosion Fin)
- 24-Hour timer
- Auto Changeover
- good'sleep
- Turbo Cooling
- Quiet Mode
- Twin BLDC
- Auto Air Direction (Up/Down)
- Anti Bacteria Coating
- Dehumidification
- Engine Protector (OLP Compressor)
- BLDC
- Manual Air Direction (Left/Right)
- Auto Clean
- Auto Mode
- Controller Protector (Volt Control PCB)
- Innovative Heat Exchanger
- Auto Restart

Available colors

Blue

White

Silver

Metalic Silver

* The colors may be different depending on region.

Outdoor units & remote control

Inverter			
9K BTU	12K BTU	18K BTU	24K BTU

Boracay (T-Series)

In the hottest of summers, depend on the Boracay to cool your space quickly, so you can enjoy coolness all day long.

Turbo Cooling
Turbo Cooling cools down the space 15% faster than normal operation.
Full HD Filter
The Full HD Filter collects up to 80% of dusts and bacteria causing allergy
Triple Protector
Triple Protector offers greater durability, higher efficiency, and more reliability.

Additional features

Virus doctor (S-Plasma ion)

Virus doctor eliminates up to 99.9% of the biological contaminants in the air such as dust, bacteria and even H1N1 virus.

Full HD Filter

The Full High Density Filter collects up to 80% of dust and allergy causing bacteria.

Turbo Cooling

Turbo Cooling maximizes the speed of cooling and heating to quickly reach the set temperature.

Triple Protector

The powerful cooling system, constant volt control and effective anti-corrosion coating offers fresh cooling air for a long time.

- Minimum Standby Power
- good'sleep
- Anti-Bacteria Coating
- Auto Clean
- Natural Breeze
- Dehumidification
- Auto Mode
- Fan Mode
- Innovative Heat Exchanger
- Engine Protector (OLP Compressor)
- Controller Protector (Volt Control PCB)
- Fin Protector (Anti-corrosion Fin)
- Auto Restart
- 24-Hour timer
- Auto Air Direction (Up/Down)
- Manual Air Direction (Left/Right)
- Auto Changeover
- Smart Saver

Available colors

Silver

Blue

* The colors may be different depending on region.

White+White Band

Outdoor units & remote control

On / Off			
5 / 7 / 9K BTU	12K BTU	18K BTU	24K BTU

Crystal

Crystal dazzles with its high glossy panel, making your home sparkle with luxury. What's more, you can enjoy clean, refreshing air with its strong power and purifying functions.

Virus Doctor (S-Plasma ion)
Virus doctor eliminates 99.9% of harmful contaminants in the air.
Full HD Filter
The Full HD Filter collects up to 80% of dusts and bacteria causing allergy.
Smart wi-fi (Optional)
With the wi-fi function, you can operate your air conditioner inside and outside of your house.
Filter Cleaning Indicator (Optional)
The indicator automatically alerts you when the filter needs to be cleaned.

Additional features

Smart Inverter (optional)

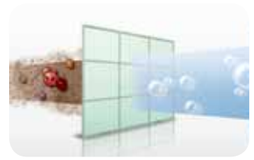
Smart Inverter maintains the ideal temperature without constant shutting off and on of the compressor.

Minimum Standby Power

The air conditioner uses almost 0W of energy when it's off, that results in 90% more energy savings.

Virus doctor (S-Plasma ion) (Optional)

Virus doctor eliminates up to 99.9% of the biological contaminants in the air such as dust, bacteria and even H1N1 virus.



Full HD Filter

The Full High Density Filter collects up to 80% of dust and allergy causing bacteria.

Smart wi-fi (Optional)

With the newly added wi-fi function, you can control your air conditioner without space restraints.

d'light cool (optional)

This system automatically adjusts the temperature and humidity level to maintain the most pleasant environment.

good'sleep

good'sleep automatically adjusts temperature to create the most comfortable environment at night.

Filter Cleaning Indicator (optional)

The indicator automatically alerts you when the filter needs to be cleaned by illuminating blue light.

Deodorizing Filter	Catechin Filter	Anti-Bacteria Coating	Auto Clean
Natural Breeze	Turbo Cooling	Dehumidification	Auto Mode
Fan Mode	Quiet Mode	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)
Fin Protector (Anti-corrosion Fin)	Twin BLDC	BLDC	Innovative Heat Exchanger
Indoor Temp. Display	Display On/Off	Beep On/Off	24-Hour timer
Auto Air Direction (Up/Down)	Manual Air Direction (Left/Right)	Auto Restart	Auto Changeover
Smart Saver			

Available colors

White

Silver

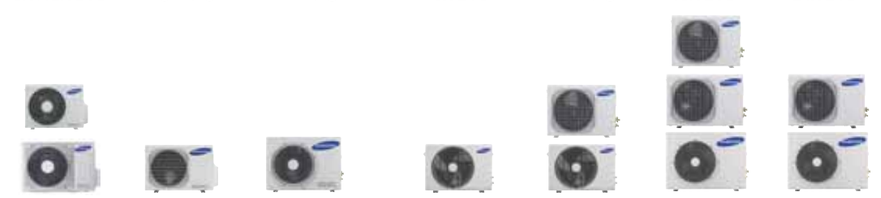
Cadet Blue

Celeste Blue

* The color and size may be different depending on region.

Outdoor units & remote control

Inverter			On / Off			
9K /12K BTU	18K BTU	24K BTU	9K BTU	12K BTU	18K BTU	24K BTU



Max

With exceptional cooling power, Max cools the room faster and keeps it cool longer with refreshing air. Also, its unique technologies provide long lasting and reliable performance as well as comfortable environment.

Turbo Cooling
Turbo Cooling cools down the space 15% faster than normal operation.
Full HD Filter
The Full HD Filter collects up to 60% of dust and bacteria causing allergy.

Additional features

Smart Saver

In Smart Saver mode, the compressor operates in the least amount of time to cool the room, which saves electricity.

good'sleep

good'sleep automatically adjusts temperature to create the most comfortable environment at night.

Turbo Cooling

Turbo Cooling maximizes the speed of cooling and heating to quickly reach the set temperature.

Triple Protector

The powerful cooling system, constant volt control and effective anti-corrosion coating offers fresh cooling air for a long time.

Smart Inverter	Minimum Standby Power	Full HD filter	Anti-Bacteria Coating
Auto Clean	Natural Breeze	Dehumidification	Auto Mode
Fan Mode	Twin BLDC	Engine Protector (OLP Compressor)	Controller Protector (Volt Control PCB)
Fin Protector (Anti-corrosion Fin)	Auto Air Direction (Up/Down)	BLDC	Innovative Heat Exchanger
24-Hour timer	Auto Changeover	Manual Air Direction (Left/Right)	Auto Restart

Available colors

White

Gray

Light Blue

* The color and size may be different depending on region.

Outdoor units & remote control

Inverter			On / Off			
9K / 12K BTU	18K BTU	24K BTU	5 / 7 / 9K BTU	12K BTU	18K BTU	24K BTU

Vivace

The Samsung Vivace air conditioner brings a taste of the future into your home. With advanced technology and a flat smoked mirror panel, this air conditioner is modern elegance.

Trimless Design
The half mirror trimless front panel delivers coolness and adds modern sophistication to your room.
Virus Doctor (S-Plasma ion)
Virus doctor eliminates 99.9% of harmful contaminants in the air.
Full HD Filter
The Full HD Filter collects up to 80% of dust and bacteria causing allergy.

Additional features

Virus doctor (S-Plasma ion) (Optional)

Virus doctor eliminates up to 99.9% of the biological contaminants in the air such as dust, bacteria and even H1N1 virus.

Full HD Filter

The Full High Density Filter collects up to 80% of dust and allergy causing bacteria.

Turbo Cooling

Turbo Cooling maximizes the speed of cooling and heating to quickly reach the set temperature.

good'sleep

good'sleep automatically adjusts temperature to create the most comfortable environment at night.

Auto Clean	Natural Breeze	Dehumidification	Anti-Bacteria Coating
Fan Mode	Auto Air Direction (Up/Down)	Engine Protector (OLP Compressor)	Auto Mode
Fin Protector (Anti-corrosion Fin)	Auto Changeover	Manual Air Direction (Left/Right)	Controller Protector (Volt Control PCB)
24-Hour timer	Auto Restart	Innovative Heat Exchanger	

Available colors

Black Mirror

Outdoor units & remote control

Inverter			On / Off			
9K / 12K BTU	18K BTU	24K BTU	5 / 7 / 9K BTU	12K BTU	18K BTU	24K BTU

Jungfrau-N (K-Series)

Built to endure harsh condition, Jungfrau-N(K-Series) air conditioner offers reliable cooling and heating performance in extremely low temperature.

Smart wi-fi
With the wi-fi function, you can operate your air conditioner inside and outside of your house.
100% Capacity at -15°C
Cold-resistant Jungfrau-Nordic boasts 100% performance even at - 15°C.
Low Ambient -25°C
The Jungfrau-Nordic's outdoor unit can withstand and operate at as low as -25°C.

Additional features

Smart wi-fi

With the newly added wi-fi function, you can control your air conditioner without space restraints.

100% Capacity at -15°C

The Jungfrau-Nordic provides consistent heating performance even at -15°C.

Low Ambient -25°C

Samsung's weather-proof technology protects the outdoor unit against -25°C low temperature.

8~30°C Heating Range

The Jungfrau-Nordic's heating covers a wide range of temperature from 8°C to 30°C.

Full HD Filter

The Full High Density Filter collects up to 90% of dust and allergy causing bacteria.

d'light cool

This system automatically adjusts the temperature and humidity level to maintain the most pleasant environment.

3D Wind

The Wide Twin Blades and 4 Way Auto Swing provide advanced airflow all around the room for even distribution.

Hidden Display

The gentle and stylish hidden LED display lights up when you turn on the air conditioner.

- Wide-Twin Blade
- Turbo Cooling
- Quiet Mode
- Twin BLDC
- Real-time timer
- Auto Changeover
- Allergy Care
- Dehumidification
- Engine Protector (OLP Compressor)
- Indoor Temp. Display
- Auto Air Direction (Up/Down)
- Smart Saver
- Auto Clean
- Auto Mode
- Controller Protector (Volt Control PCB)
- Display On/Off
- Auto Air Direction (Left/Right)
- good'sleep
- Natural Breeze
- Fan Mode
- Fin Protector (Anti-corrosion Fin)
- Beep On/Off
- Auto Restart

Available color

Outdoor units & remote control

Inverter

9K BTU

12K BTU

Floor Standing Type

- Rose
- Super
- Mirage
- Waltz

Rose

Inspired by the rose, its dazzling design matches well with any modern living room. And its state of the art cooling technology offers utmost comfort and pleasure.

Exculsive Design

Rose's slim and elegant design has brought air conditioners into a new realm of style.

Blooming Touch

The doors open like a blooming flower when you touch the central panel to start the air conditioner.

Hidden Buttons

When it is not used, the control panel is hidden behind the outer doors, making the whole design look like an elegant sculpture.

Sparkling Diamonds

As if decorated with diamonds, the Rose's upper and lower surfaces sparkle with great detail.

Powerful wind

Rose has two separate air discharge ports on the left and the right, covering a wider range. Furthermore, it also has two larger coolers, allowing it to send a stronger wind farther away, and covers a wide space with ease.

Twin Cooling Fans

Twin Cooling Fans provide long, wide and strong airflow. Blowing wind can reach up to 13meters and cool the whole house quickly. It can be used for a large living room and a kitchen attached together.

Strong
Highly efficient heat exchanger
By using a highly efficient heat exchanger, cooling gets much faster and more powerful.
Wide
13M
Long
Long airflow as far as 13m
The "Dual Cooling" fan circulates a great amount of wind and sends the fresh wind as far as 13m. It is suitable for a wide space.
Wider Range of Wind Direction
You can send the air either to the left or to the right, depending on where a person is. You can spread out the cool air evenly using wide wind, If you would like to cool the entire space.

Perfect air filtration

As a result of the horizontal and vertical flaps that move independently of one another, a greater diversity of air-flow is available depending upon your needs.

Virus Doctor (S-Plasma ion)

This air purifying device (Virus doctor technology) eliminates 99% of contaminants, bacteria and viruses in the air.

Full HD Filter

Filters with high density increase efficiency by up to 80% while thoroughly removing allergens and bacteria.

Zero Filter

Zero filter effectively removes dust by collecting dust using static electricity. Rose is able to cover an area of 49.6m² with 100% efficiency rate, as extensive as its large cooling capacity.

Rose
The coverage of air purifying system is 100% of cooling space

Conventional
The coverage of air purifying system is only 20% of cooling space.

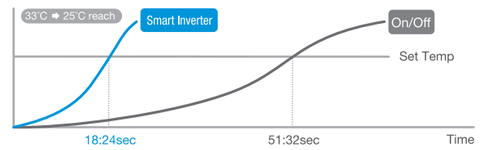
Energy saving

With Smart Inverter technology, energy efficiency is greatly improved. Also the Smart Sensor senses the activity level in the room and adjusts the cooling power to prevent energy waste.

Smart Inverter

1. Saving up to 84.3% in electricity costs by using the Solo Mode of the Smart Inverter.
* In comparison with Non Inverter models

2. Enjoy better cooling results even when only operated for a short amount of time. The Smart Inverter reaches the set temperature 3 times faster than the ON/OFF method.



Smart Sensor

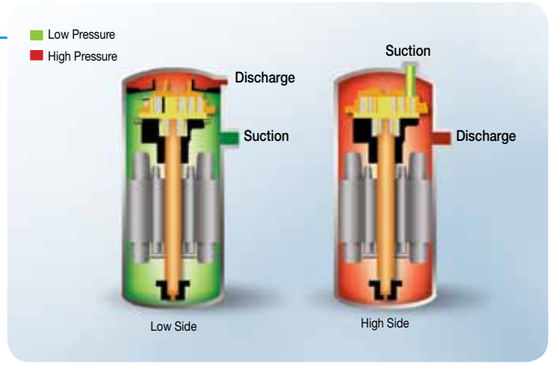
A built-in sensor with location recognition automatically controls the air conditioner's wind strength depending on the level of human activity in the room, minimizing the amount of unnecessary cooling.

Super

Ideal for commercial use, the Super air conditioner provides strong and long-range cooling with reliable performance.

Powerful scroll compressor

Super's lower pressure type compressor provides incredible performance in hot temperature, resulting in preventing temperature rise. In addition, unique seal makes higher efficiency by blocking the refrigerant spill.



18m long-range air flow

The optimum combination of powerful fan motor and fan ensures a long-range air flow that reaches to 18m.
So, it instantly cools even in a large room.

* AP0AS0AXSG
*Samsung test results

Duct installation for a large space

With an installation of Duct, the air conditioner offers a powerful cooling performance regardless of space characters.

Features

_ Smart Saver
_ Anti-bacteria filter
_ 4 way air direction (manual)
_ Dehumidification
_ Fan Mode
_ Indoor Temp. Display
_ Remote Controller
_ 12 Hours Timer
_ Auto Restart
_ Anti-corrosion Fin
_ Scroll Compressor

Mirage

The superior technologies built in provide the uncontested experience of absolute comfort.

Powerful and clean cooling

Mirage's powerful, long range cooling capacity and air filtration system can create a comfortable environment for your home and for your business.

4Way auto swing

There's no need to use 2 air conditioners to cool one large area with a Samsung air conditioner. Powerful air flow from 4 directions cool every corner of the room so the entire room gets cool.

UTR Plus™

The UTR Plus™ with its strong motor can quickly cool the air even in extreme hot climates of 54°C, and it is 23% faster than the conventional "Reciprocating" compressor.

Convenient operation

Mirage's wide range of operation options can be controlled just with a simple touch on its panel. Its convenience features ease your mind and add more pleasure to your life.

Full touch panel control

The touch screen display panel lets you easily control the direction of air flow, adjust temperature, and simply adds modern luxury to your room.

Auto shutter

When your air conditioner is turned on, the flaps open, ready to deliver pure, fresh air. When your air conditioner is turned off, however, the flaps close, impeding dust particles from entering the interior of your air conditioner when not in use.

Features

_ Full HD Filter
_ Anti-bacteria
_ 4 way Air Direction (Up/Down)
_ Auto Mode
_ Fan Mode
_ Indoor Temp. Display
_ Auto Restart
_ Anti-corrosion Fin
_ UTR Compressor
_ Turbo Cooling
_ Dehumidification
_ Remote Controller
_ 24-HourTimer

Waltz

Waltz's sophisticated, stylish design blends well the the decor of any home or office.

Luxury design

The glassed modern style of Samsung's new air conditioner adds elegant, luxurious style to your space.

Powerful fresh coolness

Samsung Waltz air conditioner can cool even the largest rooms and offices without the excessive energy consumption of other commercially available air conditioners on the market.

Turbo Cooling

With Turbo Cooling system, the powerful air cools down your space faster, contributing to higher productivity and better comfort.

Long distance air flow

Thanks to the long distance air flow, instantaneous cool air is felt by all, regardless of how far they are from the air conditioner.

Features

_ Dehumidification
_ good'sleep (Bio Sleep)
_ Smart Saver(Option)
_ Auto Shutter
_ LED display
_ Childcare lock
_ Auto Mode
_ Fan Mode
_ Timer
_ Auto wind
_ Auto restart
_ Filter Cleaning Indicator
_ Anti Bacteria Coating
_ Anti Corrosion Fin
_ UTR

Specifications

- Europe
- CIS
- America
- Southeast Asia
- Middle East
- Africa
- Southwest Asia